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WHAT IS CLAIMED IS:

1. (Currently Amended) A precision marking system to place reference markers on an object that comprises:

a work surface on which the object is placed;

an object locator system to determine the location and orientation of the object and features within the object relative to the work surface;

a multiple axis robot, wherein positioning the multiple axis robot is directed by a control system; and

at least one end-effector operable coupled to the multiple axis robot to place reference markers on the object, wherein the end-effector further comprises:

an ink delivery system;

a pulsed valve to regulate the supply of ink from the ink delivery system;

- a curved pick shaped stylus operable coupled to the pulsed valve to receive ink from the pulsed valve, and wherein the curved pickshaped stylus has an internal orifice through which the ink is dispensed from the end-effector and onto the object.
- 2. (Original) The precision marking system of Claim 1, wherein the ink delivery system further comprises an ink reservoir operably coupled to a positive displacement pump.
- 3. (Original) The precision marking system of Claim 1, wherein the ink delivery system further comprises a positive pressure pneumatic reservoir delivery system.
- 4. (Currently Amended) The precision marking system of Claim 1, wherein the curved pick shaped stylus provide radial clearance around the orifice.
- 5. (Original) The precision marking system of Claim 1, wherein the work surface comprises a shuttle table.

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- (Original) The precision marking system of Claim 5, wherein the shuttle table further comprises a series of vacuum support pins in a predetermined arrangement for a given object.
- 7. (Original) The precision marking system of Claim 1, wherein the object locator system further comprises a vision end-effector to locate the object within a work envelope.
- 8. (Original) The precision marking system of Claim 1, wherein the multiple axis robot further comprises a 6-axis gantry robot.
- 9. (Original) The precision marking system of Claim 1, wherein the reference markers provide alignment information for additional objects to be mechanically coupled to the object.
- 10. (Original) The precision marking system of Claim 1, wherein the reference markers provide partidentification information.
- 11. (Original) The precision marking system of Claim 1, wherein the reference markers provide assembly information to a user.
- 12. (Original) The precision marking system of Claim 1, wherein the object further comprises an aircraft understructure.
- 13. (Original) The precision marking system of Claim 1, wherein the end-effector is oriented to place reference markers on the surface of the object.
- 14. (Original) The precision marking system of Claim 1, wherein the end-effector is oriented to place reference markers on walls located at an angle to the surface of the object.
- 15. The precision marking system of Claim 1, further comprises a calibration system operable to calibrate each end-effector when selected.

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16. (Previously Presented) The precision marking system of claim 1, further comprising a storage rack operable to store the end-effector when the end-effector is not coupled to the multiple axis robot.

- 17. (Currently Amended) An end-effector to place reference markers on an object that comprises:
 - a fluid delivery system;
 - a pulsed valve to regulate the supply of fluids from the fluid delivery system; and
 - a <u>curved</u> piekshaped stylus operable coupled to the pulsed valve to receive fluids from the pulsed valve, and wherein the curved pick shaped stylus has an internal orifice through which the fluids are dispensed from the end-effector and onto the object.
- 18. (Previously Presented) The end-effector of Claim 17, wherein the fluid delivery system further comprises an ink reservoir operably coupled to a positive displacement pump.
- (Previously Presented) The end-effector of Claim 17, wherein the fluid delivery 19. system further comprises a positive pressure pneumatic reservoir delivery system.
- 20. (Currently Amended) The end-effector of Claim 17, wherein the curved pick shaped stylus provide radial clearance around the orifice.
- 21. (Original) The end-effector of Claim 17, wherein the end-effector is operably coupled to a multi axis robot within a precision marking system.
- 22. (Original) The end-effector of Claim 21, wherein the precision marking system further comprises:
 - a work surface on which the object is placed;
 - an object locator system to determine the location and orientation of the object and features within the object relative to the work surface; and

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the multiple axis robot, wherein positioning the multiple axis robot is directed by a control system.

23. (Original) The end-effector of claim 17, wherein the fluids further comprise inks, paints, epoxy, or adhesives.